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[Continued on next page]

(54) Title: METHOD FOR COMPRESSING MARKUP LANGUAGES FILES, BY REPLACING A LONG WORD WITH A SHORTER WORD

<p>(i) <u>MARKUP DOCUMENT</u></p> <pre><start> <vehicle ok="yes"> <head>&label;</head> <doors>locked</doors> <speed>95</speed> </vehicle> </start></pre>	<p>(iii) <u>COMPRESSING KEY</u></p> <pre><XMLKey> <Info> <keyID>123456789</keyID> </Info> <Item> <code>a</code> <name>start, vehicle, ok</name> <type>attribute</type> <format> string </format> </Item> <Item> <code>b</code> <name>start, vehicle, doors</name> <type>element</type> <format>string</format> </Item> <Item> <code>c</code> <name>start, vehicle, speed</name> <type>element</type> <format>integer</format> </Item> <Item> <code>d</code> <name>start, vehicle, head</name> <type>reference</type> <format>string</format> </Item></pre>
<p>(ii) <u>DTD</u></p> <pre><ENTITY label "Motor Vehicle"> <ELEMENT start (vehicle)> <ELEMENT vehicle (head, doors, speed)> <!ATTLIST vehicle ok (yes no) #IMPLIED; <ELEMENT doors (#PCDATA)> <ELEMENT speed (#PCDATA)></pre>	<p>(iv) <u>COMPRESSED RESULT</u></p> <pre>"a<yes>b<locked>c<95>d<Motor Vehicle>"</pre>

(57) Abstract: The invention relates to a method of compressing data and in particular a method for compressing a data set having a markup hierarchy and comprising data parts having first values, said data set being arranged according to a definition part, the method comprising the steps of: assigning at least said markup hierarchy defining said data parts defined in said definition part with codes having less values than said first values, and replacing said data parts in said data set by said assigned codes and producing a compressed data set. The invention is in a preferred embodiment particularly related to markup languages as XML, SGML or similar.

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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.